

Application No.: 09/762,380 MTS-3243US
Amendment Dated: December 19, 2006
Reply to Office Action Of: September 20, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-5. (Cancelled)

6. (Previously Presented) A recording and reproducing apparatus, comprising:

recording means for recording a predetermined MPEG transport stream discretely including Program Specific Information (PSI) or Service Information (SI) of a program;

detecting means for detecting the PSI or the SI from the MPEG transport stream; and

adding means for adding the PSI or the SI to the head of the MPEG transport stream upon recording of the MPEG transport stream.

7-31. (Cancelled)

32. (Previously Presented) A recording and reproducing apparatus, comprising:

a recorder for recording a predetermined MPEG transport stream discretely including Program Specific Information (PSI) or Service Information (SI) of a program;

a detector for detecting the PSI or the SI from said MPEG transport stream; and

Application No.: 09/762,380 MTS-3243US
Amendment Dated: December 19, 2006
Reply to Office Action Of: September 20, 2006

an adder for adding the PSI or the SI to the head of the MPEG transport stream upon recording of the MPEG transport stream.

33. (Cancelled)

34. (Previously Presented) A recording and reproducing method, comprising steps of:

recording a predetermined MPEG transport stream discretely including Program Specific Information (PSI) or Service Information (SI) of a program;

detecting the PSI or the SI from the MPEG transport stream; and

adding the PSI or the SI to the head of the MPEG transport stream upon recording of the MPEG transport stream.

35. (Cancelled)

36-38. (Cancelled)

39. (New) The apparatus of claim 6 wherein said adding means adds the PSI or the SI before the head of the MPEG transport stream while maintaining the PSI or the SI situated in the originally located position.

40. (New) The apparatus of claim 6 wherein said detecting means detects the PSI or the SI together with a value of its cyclic counter and said adding means adds the PSI or the SI before the head of the MPEG transport stream so that continuity of the values of respective cyclic counters is kept.

41. (New) The apparatus of claim 40 wherein the continuity of the values of respective cyclic counters is kept by rewriting the values in accordance with the values of cyclic counters of the respective PSIs or Sis originally included in the MPEG transport stream, or by replacing respective PSIs or Sis originally included in the MPEG transport stream in accordance with the values of cyclic

Application No.: 09/762,380
Amendment Dated: December 19, 2006
Reply to Office Action Of: September 20, 2006

MTS-3243US

counters of the PSIs or SIs.

42. (New) The apparatus of claim 32 wherein said adder adds the PSI or the SI before the head of the MPEG transport stream while maintaining the PSI or the SI situated in the originally located position.

43. (New) The apparatus of claim 32 wherein said detector detects the PSI or the SI together with a value of its cyclic counter and said adder adds the PSI or the SI to the head of the MPEG transport stream so that continuity of the values of respective cyclic counters is kept.

44. (New) The apparatus of claim 43 wherein the continuity of the values of respective cyclic counters is kept by rewriting the values in accordance with the values of cyclic counters of the respective PSIs or Sis originally included in the MPEG transport stream, or by replacing respective PSIs or Sis originally included in the MPEG transport stream in accordance with the values of cyclic counters of the PSIs or SIs.

45. (New) The method of claim 34 wherein the PSI or the SI is added before the head of the MPEG transport stream while maintaining the PSI or the SI situated in the originally located position.

46. (New) The method of claim 32 wherein the PSI or the SI is detected together with a value of its cyclic counter and the PSI or the SI is added to the head of the MPEG transport stream so that continuity of the values of respective cyclic counters is kept.

47. (New) The method of claim 46 wherein the continuity of the values of respective cyclic counters is kept by rewriting the values in accordance with the values of cyclic counters of the respective PSIs or Sis originally included in the MPEG transport stream, or by replacing respective PSIs or Sis originally included in the MPEG transport stream in accordance with the values of cyclic counters of the PSIs or SIs.